



Ted Wynne Engineering/Contractor, Inc.

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June 21, 1999

Tennessee Valley Authority
Mr. Bill Stalker
Telco Research Building
616 Marriott Drive, TRN3L
Nashville, Tennessee 37214

Re: RIVERBEND PRISON HOLE TESTS 1&2
NASHVILLE, TENNESSEE
TWEC # 99026

Dear Bill:

This office performed a thermal conductivity test on two (2) 200 feet deep, 6-inch diameter vertical boreholes, backfilled with drilled tails and crushed stone on April 19, and 20, 1999. The following data was derived from test data:

HOLE #1

Thermal Conductivity	1.9 Btu/hr-f
Ground Temperature	60.6 F

HOLE #2

Thermal Conductivity	1.1 Btu/hr-f
Ground Temperature	60.6 F

We believe the difference in the results from the two- (2) tests is due to improper backfill of hole #2. It appears that the backfill bridged during completion leaving a portion of the loop out of contact with the backfill.

This conclusion is based on the driller's log showing close similarity of the test bores, with the expectation of similar thermal conductivity.

If we can be of any further assistance please contact us.

Sincerely,

TED WYNNE ENGINEERING/CONTRACTORS, INC.

Ted Wynne
Theodore E. Wynne, P.E.

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File name: 99026



#	Wells	#
1		2
17'	Dirt	32'
26'-29'	CLAYE	36'-39'
32	WATER	60'
124-130	WATER	120-125
200'	TD	200'
32'	CASING	40'

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